

CLAIMS

add 95

1. In a machine wherein the machine has a part mounted on a frame supported by a

weight bearing device designed to absorb shock and vibration between said part and the frame using a spring means allowing movement move up and down relative to each other ^{to} each what

5 and which allows for changes in position as it moves up and down relative to said each part, a means for adjusting the handling and vibration characteristics of said machine parts comprising:

(a) an air bellows assembly located between said parts;

(b) wherein said air bellows assembly is mounted above said lower part;

10 (c) wherein the top of said air bellows assembly is secured to the upper part by an upper mounting bracket; NA NA

(d) wherein said air bellows spring assembly is connected to an air supply means through an adjustable pressure adjustment means, and

(e) wherein the action of said air bellows spring can be manually adjusted using a manually

15 adjustable pressure adjustment means, wherein said connecting tubing has a governing orifice which provides a means for controlling rapid changes in volume of air contained in said air bellows. NA

2. In a machine of Claim 1 having an upper part supported by a spring means which connects said upper part to a frame, a means for adjusting the handling characteristics of said

20 machine comprising:

(a) an air bellows assembly which is moveably mounted between said upper part and said lower part in a space defined by a vertical line through the center of said upper and lower parts; NA

(b) wherein said air bellows means is moveably mounted on the top of said lower part using a

25 lower mounting bracket in a manner allowing each part to move independently of each other;

(c) wherein said air bellows assembly is secured to the said lower part near the top of said air bellows assembly so that the air bellows assembly exerts a force between the bottom of said upper part and the top of said lower part; and

(d) wherein said air bellows assembly is connected to a pressurized air supply means through 30 connecting tubing containing an adjustable pressure regulating means which can be adjusted. add

3. A means for adjusting the handling characteristics of a machine of Claim 1 having

at least one bellows means located above each of said lower parts. only one?

~~4. A means for adjusting the handling characteristics of a machine of Claim 1 having at least two bellows means located in-line above each of said lower parts.~~

del 5. A means for adjusting the handling characteristics of a machine of Claim 1 wherein said connecting tubing has a governing orifice which provides a means for controlling rapid changes in volume of air contained in said air bellows.

del 6. A means for adjusting the handling characteristics of a machine of Claim 1 comprising ^{an} ~~a~~ air bellows assembly having at least two bellows located adjacent each other on ^{en} ~~en~~ lower mounting bracket. *del*

10 7. A means for adjusting the handling characteristics of a machine of Claim 1 comprising ~~an~~ ^{del} air bellows assembly having at least two bellows located on said lower mounting bracket wherein a second bellows is located a spaced distance apart from a first bellows.

15 8. A means for adjusting the handling characteristics of a machine of Claim 2 comprising ~~an~~ ^{del} air bellows assembly having bellows with a total air capacity in the range of about 40-1000 cubic inches.

9. A means for adjusting the handling characteristics of a machine of Claim 1 comprising ~~an~~ ^{del} air bellows assembly having at least two bellows located in-line above ~~said~~ spring and with each bellows independently having an air capacity in the range of about ^{N/A} 40-800 cubic inches.

20 10. A means for adjusting the handling characteristics of a machine of Claim 6 comprising ~~an~~ ^{del} air bellows assembly having at least two bellows located in-line above said spring and with each bellows having an air capacity independently selected from the range of about 40-600 cubic inches.